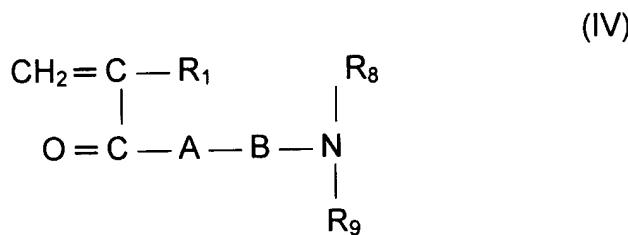


b2

32. (Amended) The process of claim 26, wherein the cationic organic polymer comprises in polymerized form a non-ionic monomer having a non-aromatic hydrophobic group represented by the general formula (IV):



wherein R₁ is H or CH₃; A is O or NH; B is an alkylene group of from 2 to 4 carbon atoms or a hydroxy propylene group or, alternatively, A and B represent a single bond between C and N (O=C—NR₈R₉); and R₈ and R₉ are each H or a substituent containing an alkyl group having from 1 to 6 carbon atoms, at least one of R₈ and R₉ being a substituent containing an alkyl group having from 3 to 4 carbon atoms.

B3

37. (Amended) The process of claim 36, wherein the low molecular weight cationic organic polymer has a molecular weight up to about 700.000.

B4

38. (Amended) The process of claim 26, wherein the suspension that is dewatered on the wire has a conductivity of at least 3.5 mS/cm.

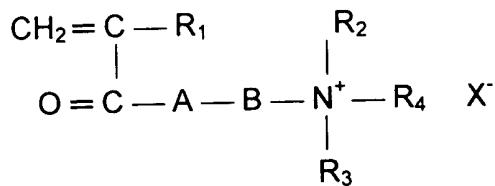
B4

41. (Amended) A process for the production of paper which comprises:

- (i) providing a suspension containing cellulosic fibres, and optional fillers;
- (ii) adding to the suspension drainage and retention aids comprising a cationic organic polymer and anionic silica-based particles; and
- (iii) forming and dewatering the suspension on a wire; the suspension that is dewatered on the wire having a conductivity of at least 2.0 mS/cm;

wherein the cationic organic polymer comprises in polymerized form one or more monomers comprising at least one cationic monomer having a non-aromatic hydrophobic group represented by the general formula (I):

(I)

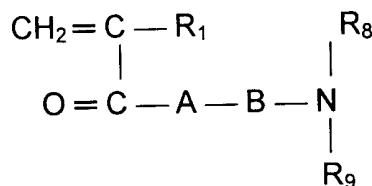


wherein R₁ is H or CH₃; R₂ and R₃ are each H or an alkyl group having from 1 to 3 carbon atoms; A is O or NH; B is an alkylene group of from 2 to 8 carbon atoms or a hydroxy propylene group; R₄ is a substituent containing a non-aromatic hydrophobic group containing from 3 to 12 carbon atoms; and X⁻ is an anionic counterion.

44. (Amended) A process for the production of paper which comprises:

- (i) providing a suspension containing cellulosic fibres, and optional fillers;
- (ii) adding to the suspension drainage and retention aids comprising a cationic organic polymer and anionic silica-based particles; and
- (iii) forming and dewatering the suspension on a wire; the suspension that is dewatered on the wire having a conductivity of at least 2.0 mS/cm;
wherein the cationic organic polymer comprises in polymerized form one or more monomers comprising at least one non-ionic monomer having a non-aromatic hydrophobic group represented by the general formula (IV):

(IV)



wherein R₁ is H or CH₃; A is O or NH; B is an alkylene group of from 2 to 8 carbon atoms or a hydroxy propylene group or, alternatively, A and B represent a single bond between C and N (O=C—NR₈R₉); and R₈ and R₉ are each H or a substituent containing a non-aromatic hydrophobic group having from 1 to 6 carbon atoms, at

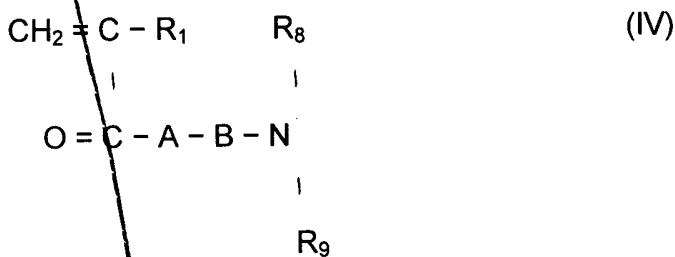
B5
 least one of R₈ and R₉ being a substituent containing a non-aromatic hydrophobic group having from 2 to 6 carbon atoms.

3b(c) 46. (Amended) A cationic vinyl addition polymer comprising in polymerized form

- (a) at least one non-cationic monomer having a non-aromatic hydrophobic monomer;
- (b) at least one cationic monomer; and
- (c) (meth)acrylamide;

B6
 wherein the cationic vinyl addition polymer is prepared from a monomer mixture comprising from 75 to 95 mole% of (meth)acrylamide;

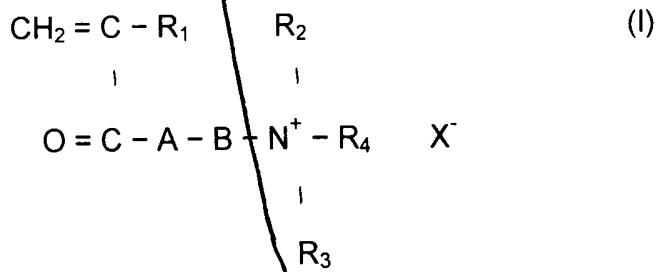
- (a) said at least one non-cationic monomer having a non-aromatic hydrophobic group comprising a monomer represented by the general formula (IV)



wherein R₁ is H or CH₃; A and B represent a single bond between C and N (O=C-NR₈R₉); R₈ and R₉ are each H or a substituent containing an alkyl group having from 1 to 6 carbon atoms, at least one of R₈ and R₉ being a substituent containing an alkyl group having from 2 to 6 carbon atoms;

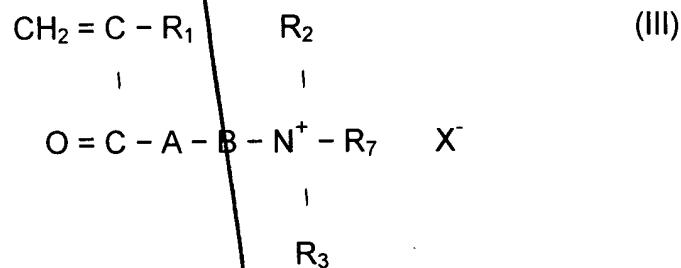
- (b) said at least one cationic monomer comprising a cationic monomer selected from the group consisting of:

- (i) cationic monomers represented by the general formula (I):



wherein R₁ is H or CH₃; R₂ and R₃ are each H or an alkyl group having from 1 to 3 carbon atoms; A is O or NH; B is an alkylene group of from 2 to 4 carbon atoms or a hydroxy propylene group; R₄ is a non-aromatic hydrocarbon group containing from 4 to 8 carbon atoms; and X⁻ is an anionic counterion;

(ii) cationic monomers represented by the general formula (III):



wherein R₁ is H or CH₃; R₂ and R₃ are each H or an alkyl group having from 1 to 3 carbon atoms; A is O or NH; B is an alkylene group of from 2 to 4 carbon atoms, or a hydroxy propylene group; R₇ is H, an alkyl group having from 1 to 3 carbon atoms, a benzyl group or a phenylethyl group; and X⁻ is an anionic counterion;

(iii) and mixtures thereof.